



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-2464-1

Job Description: PFC Analyses

For:
Dalton Utilities
1200 V.D. Parrott Jr. Parkway
Dalton, GA 30721
Attention: Ms. Dena Haverland

2010 JUN - 8 P 2:48

Approved for release.
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5/11/2010 1:41 PM

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05/11/2010

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

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Table of Contents

Cover Title Page	1
Data Summaries	4
Report Narrative	4
Manual Integration Summary	6
Sample Summary	32
Executive Summary	33
Method Summary	43
Method / Analyst Summary	44
Sample Datasheets	45
Surrogate Summary	119
QC Data Summary	125
Data Qualifiers	138
QC Association Summary	139
Lab Chronicle	144
Organic Sample Data	153
LCMS	153
Method FOSA	153
Method FOSA QC Summary	154
Method FOSA Sample Data	162
Standards Data	273
Method FOSA ICAL Data	273
Method FOSA CCAL Data	311
Raw QC Data	341
Method FOSA Blank Data	341
Method FOSA LCS/LCSD Data	354
Method FOSA Run Logs	366

Table of Contents

Method FOSA Prep Data	370
Method PFC	374
Method PFC QC Summary	375
Method PFC Sample Data	388
Standards Data	753
Method PFC ICAL Data	753
Method PFC CCAL Data	817
Raw QC Data	903
Method PFC Blank Data	903
Method PFC LCS/LCSD Data	954
Method PFC Run Logs	1010
Method PFC Prep Data	1014
Shipping and Receiving Documents	1019
Client Chain of Custody	1020
Sample Receipt Checklist	1024

CASE NARRATIVE
Client: Dalton Utilities
Project: PFC Analysis
Report Number: 280-2464-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

Receipt

The following report contains the analytical results for thirty-seven water samples received at TestAmerica Denver on April 16, 2010 according to documented sample acceptance procedures. The samples were received in good condition at temperatures of 8.4°C and 8.9°C.

The samples were received above the recommended temperature of 4 +/- 2°C. The client was notified on April 16, 2010.

Sample IDs were logged as instructed by the client via e-mail on April 19, 2010.

Sample #	Current Name:	Change To:
1	Well #16	MW 16 - M5
2	Well #16B	MW 16B - D12
3	Well #17	MW 17 - D11
4	Well #15A	MW 15A - M16
5	Well #15	MW 15 - M17
6	Well #15B	MW 15B - D13
7	Well #14B	MW 14B - D14
8	Well #14	MW 14 - M14
9	Well #12	MW 12 - D6
10	Well #14A	MW 14A - D5
11	Well #10	MW 10 - D4
12	Well #9	MW 9 - M3
13	Well #1	MW 1 - M10
14	Well #3	MW 3 - M11
15	Well #8	MW 8 - M12
16	Well #4	MW 4 - M8
17	Well #5	MW 5 - M7
18	Well #6	MW 6 - M2
19	Well #7A	MW 7A - U2
20	Well #7	MW 7 - M9
21	Well #21	MW 21 - D2
22	Well #22	MW 22 - M1
23	Well #23	MW 23 - U1
24	Well #24	MW 21 - D1
25	Well #20	MW 20 - D3
26	Well #16A	MW 16A - M15
27	Well #19A	MW 19A - U3
28	Well #18	MW 18 - D9
29	Well #17A	MW 17A - M6A
30	Well #19	MW 19 - M4
31	Well #13A	MW 13A - D8
32	Well #12A	MW 12A - D7
33	Well #13	MW 13 - M13
34	R1 BROWNS	No Change
35	R2 TILTON	No Change
36	R3 FOX	No Change
37	R4 CONFLUENT	No Change

No other anomalies were encountered during sample receipt.

PFC

Samples MW 16-M5 (280-2464-1), MW 16B-D12 (280-2464-2), MW 17-D11 (280-2464-3), MW 15A-M16 (280-2464-4), MW 15-M17

(280-2464-5), MW 15B-D13 (280-2464-6), MW 14B-D14 (280-2464-7), MW 14-M14 (280-2464-8), MW 12-D6 (280-2464-9), MW 14A-D5 (280-2464-10), MW 10-D4 (280-2464-11), MW 9-M3 (280-2464-12), MW 1-M10 (280-2464-13), MW 3-M11 (280-2464-14), MW 8-M12 (280-2464-15), MW 4-M8 (280-2464-16), MW 5-M7 (280-2464-17), MW 6-M2 (280-2464-18), MW 7A-U2 (280-2464-19), MW 7-M9 (280-2464-20), MW 21-D2 (280-2464-21), MW 22-M1 (280-2464-22), MW 23-U1 (280-2464-23), MW 21-D1 (280-2464-24), MW 20-D3 (280-2464-25), MW 16A-M15 (280-2464-26), MW 19A-U3 (280-2464-27), MW 18-D9 (280-2464-28), MW 17A-M6A (280-2464-29), MW 19-M4 (280-2464-30), MW 13A-D8 (280-2464-31), MW 12A-D7 (280-2464-32), MW 13-M13 (280-2464-33), R1 BROWNS (280-2464-34), R2 TILTON (280-2464-35), R3 FOX (280-2464-36) and R4 CONFLUENT (280-2464-37) were analyzed for PFC in accordance with SOP DV-LC-0012. The samples were prepared on 04/19/2010 and 04/22/2010 and analyzed on 05/04/2010 and 05/05/2010.

Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. Due to high concentrations of target analytes, samples MW 16-M5 (280-2464-1), MW 16B-D12 (280-2464-2), MW 15A-M16 (280-2464-4), MW 15-M17 (280-2464-5), MW 15B-D13 (280-2464-6), MW 14B-D14 (280-2464-7), MW 14-M14 (280-2464-8), MW 12-D6 (280-2464-9), MW 14A-D5 (280-2464-10), MW 10-D4 (280-2464-11), MW 3-M11 (280-2464-14), MW 8-M12 (280-2464-15), MW 4-M8 (280-2464-16), MW 5-M7 (280-2464-17), MW 6-M2 (280-2464-18), MW 7A-U2 (280-2464-19), MW 7-M9 (280-2464-20), MW 21-D2 (280-2464-21), MW 22-M1 (280-2464-22), MW 23-U1 (280-2464-23), MW 21-D1 (280-2464-24), MW 20-D3 (280-2464-25), MW 16A-M15 (280-2464-26), MW 19A-U3 (280-2464-27), MW 18-D9 (280-2464-28), MW 17A-M6A (280-2464-29), MW 19-M4 (280-2464-30), MW 13A-D8 (280-2464-31), MW 12A-D7 (280-2464-32), MW 13-M13 (280-2464-33) and R4 CONFLUENT (280-2464-37) had to be analyzed at dilutions. The reporting limits have been adjusted relative to the dilutions required.

The internal standard recovery for 13C2 PFDA associated with prep batch 280-11478 was recovered below the control limits in sample MW 1-M10 (280-2464-13). This anomaly is due to obvious matrix interferences; therefore, corrective action is deemed unnecessary.

13C2 PFDoA failed the internal standard recovery criteria low for MB 280-12133/1-A in prep batch 12133. All associated samples' internal standards for 13C2 PFDoA were within acceptance criteria; therefore, corrective action was deemed unnecessary.

The method required MS/MSD analyses could not be performed on prep batches 280-11478, 280-11481 and 280-12133, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable LCS/LCSD data.

Refer to the QC report for details.

No other difficulties were encountered during the PFC analyses.

All other quality control parameters were within the acceptance limits.

3A
Samples MW 16-M5 (280-2464-1), MW 16B-D12 (280-2464-2), MW 17-D11 (280-2464-3), MW 15A-M16 (280-2464-4), MW 15-M17 (280-2464-5), MW 15B-D13 (280-2464-6), MW 14B-D14 (280-2464-7), MW 14-M14 (280-2464-8), MW 12-D6 (280-2464-9), MW 14A-D5 (280-2464-10), MW 10-D4 (280-2464-11), MW 9-M3 (280-2464-12), MW 1-M10 (280-2464-13), MW 3-M11 (280-2464-14), MW 8-M12 (280-2464-15), MW 4-M8 (280-2464-16), MW 5-M7 (280-2464-17), MW 6-M2 (280-2464-18), MW 7A-U2 (280-2464-19), MW 7-M9 (280-2464-20), MW 21-D2 (280-2464-21), MW 22-M1 (280-2464-22), MW 23-U1 (280-2464-23), MW 21-D1 (280-2464-24), MW 20-D3 (280-2464-25), MW 16A-M15 (280-2464-26), MW 19A-U3 (280-2464-27), MW 18-D9 (280-2464-28), MW 17A-M6A (280-2464-29), MW 19-M4 (280-2464-30), MW 13A-D8 (280-2464-31), MW 12A-D7 (280-2464-32), MW 13-M13 (280-2464-33), R1 BROWNS (280-2464-34), R2 TILTON (280-2464-35), R3 FOX (280-2464-36) and R4 CONFLUENT (280-2464-37) were analyzed for FOSA in accordance with SOP DV-LC-0012. The samples were prepared on 04/19/2010 and analyzed on 04/22/2010 and 04/29/2010.

Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. Due to a high concentration of the target analyte, sample MW 13A-D8 (280-2464-31) had to be analyzed at a dilution. The reporting limits have been adjusted relative to the dilution required.

The internal standard recovery for MeFOSA associated with prep batch 280-11519 was recovered below the control limits in sample MW 20-D3 (280-2464-25). Upon re-extraction and reanalysis, the internal standard recovery outlier was still present, demonstrating this anomaly is most likely due to matrix interference. The original data has been reported.

The method required MS/MSD analyses could not be performed on prep batches 280-11517 and 280-11519, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable LCS/LCSD data.

The Continuing Calibration Verification (CCV) standard associated with sample MW 7A-U2 (280-2464-19) in analytical batch 280-12181 exhibited a %D value out of range, biased high, for Perfluorooctane Sulfonamide (FOSA) and MeFOSA. This is an indicator that data may be biased high. As no detectable concentration of FOSA is present in the associated sample, corrective action is deemed unnecessary.

No other difficulties were encountered during the FOSA analyses.

All other quality control parameters were within the acceptance limits.

Pg 1 of 13

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver

Job No.: 280-2464-1

SDG No.:

Instrument ID: LC_LCMSS

Lab Sample ID: STD020 280-13802/5 IC

Date Analyzed: 05/04/10 16:54

ID:

S. Castagni

5-10-10

COMPOUND NAME	RETENTION TIME	REASON	MANUAL INTEGRATION	ANALYST	DATE
Perfluoroctanoic acid (PFHxA)	6.14	Baseline		williamst	05/04/10 18:00
Perfluoroctane Sulfonamide	7.86	Baseline		williamst	05/04/10 18:00

Lab Sample ID: ICV 280-13802/10

Date Analyzed: 05/04/10 17:58

COMPOUND NAME	RETENTION TIME	REASON	MANUAL INTEGRATION	ANALYST	DATE
Perfluorobutane Sulfonate (PFBS)	5.66	Baseline		williamst	05/04/10 18:15

EXECUTIVE SUMMARY - Detections

Client: Dalton Utilities

Job Number: 280-2464-1

Lab Sample ID Analyte	Client Sample ID Result / Qualifier	Reporting Limit	Units	Method	
280-2464-1 MW 16-M5					
Perfluorobutane Sulfonate (PFBS)	1.9	0.40	ug/L	DV-LC-0012	
Perfluorobutanioc acid (PFBA)	0.42	0.40	ug/L	DV-LC-0012	
Perfluoroheptanoic acid (PFHpA)	0.92	0.59	ug/L	DV-LC-0012	
Perfluorohexane Sulfonate (PFHxS)	0.64	0.59	ug/L	DV-LC-0012	
Perfluorohexanoic acid (PFHxA)	1.2	0.40	ug/L	DV-LC-0012	
Perfluorononanoic acid (PFNA)	0.41	J	0.79	ug/L	DV-LC-0012
Perfluoroctanoic acid (PFOA)	2.3	0.40	ug/L	DV-LC-0012	
Perfluorooctane Sulfonate (PFOS)	3.1	0.59	ug/L	DV-LC-0012	
Perfluoropentanoic acid (PFPA)	1.4	0.59	ug/L	DV-LC-0012	
Perfluoroctane Sulfonamide	0.015	J	0.049	ug/L	PFC -FOSA
280-2464-2 MW 16B-D12					
Perfluorobutane Sulfonate (PFBS)	0.33	0.099	ug/L	DV-LC-0012	
Perfluorobutanioc acid (PFBA)	0.083	J	0.099	ug/L	DV-LC-0012
Perfluoroheptanoic acid (PFHpA)	0.084	J	0.15	ug/L	DV-LC-0012
Perfluorohexanoic acid (PFHxA)	0.10	0.099	ug/L	DV-LC-0012	
Perfluoroctanoic acid (PFOA)	0.17	0.099	ug/L	DV-LC-0012	
Perfluorooctane Sulfonate (PFOS)	0.28	0.15	ug/L	DV-LC-0012	
Perfluoropentanoic acid (PFPA)	0.15	0.15	ug/L	DV-LC-0012	
280-2464-4 MW 15A-M16					
Perfluorobutane Sulfonate (PFBS)	0.79	0.20	ug/L	DV-LC-0012	
Perfluorobutanioc acid (PFBA)	0.30	0.20	ug/L	DV-LC-0012	
Perfluoroheptanoic acid (PFHpA)	0.23	J	0.30	ug/L	DV-LC-0012
Perfluorohexane Sulfonate (PFHxS)	0.070	J	0.30	ug/L	DV-LC-0012
Perfluorohexanoic acid (PFHxA)	0.41	0.20	ug/L	DV-LC-0012	
Perfluoroctanoic acid (PFOA)	0.28	0.20	ug/L	DV-LC-0012	
Perfluoropentanoic acid (PFPA)	0.53	0.30	ug/L	DV-LC-0012	
280-2464-5 MW 15-M17					
Perfluorobutane Sulfonate (PFBS)	13	0.99	ug/L	DV-LC-0012	
Perfluorobutanioc acid (PFBA)	1.3	0.99	ug/L	DV-LC-0012	
Perfluorodecanoic acid (PFDA)	0.55	J	0.99	ug/L	DV-LC-0012
Perfluoroheptanoic acid (PFHpA)	1.1	J	1.5	ug/L	DV-LC-0012
Perfluorohexanoic acid (PFHxA)	1.6	0.99	ug/L	DV-LC-0012	
Perfluoroctanoic acid (PFOA)	2.8	0.99	ug/L	DV-LC-0012	
Perfluorooctane Sulfonate (PFOS)	2.2	1.5	ug/L	DV-LC-0012	
Perfluoropentanoic acid (PFPA)	2.5	1.5	ug/L	DV-LC-0012	
Perfluoroctane Sulfonamide	0.15	0.051	ug/L	PFC -FOSA	

EXECUTIVE SUMMARY - Detections

Client: Dalton Utilities

Job Number: 280-2464-1

Lab Sample ID	Client Sample ID		Reporting Limit	Units	Method
Analyte		Result / Qualifier			
280-2464-6 MW 15B-D13					
Perfluorobutane Sulfonate (PFBS)	1.3		0.99	ug/L	DV-LC-0012
Perfluorobutanioc acid (PFBA)	0.71	J	0.99	ug/L	DV-LC-0012
Perfluoroheptanoic acid (PFHpA)	2.1		1.5	ug/L	DV-LC-0012
Perfluorohexane Sulfonate (PFHxS)	1.8		1.5	ug/L	DV-LC-0012
Perfluorohexanoic acid (PFHxA)	2.0		0.99	ug/L	DV-LC-0012
Perfluorooctanoic acid (PFOA)	6.4		0.99	ug/L	DV-LC-0012
Perfluorooctane Sulfonate (PFOS)	14		1.5	ug/L	DV-LC-0012
Perfluoropentanoic acid (PFPA)	2.1		1.5	ug/L	DV-LC-0012
Perfluorooctane Sulfonamide	0.14		0.054	ug/L	PFC -FOSA
280-2464-7 MW 14B-D14					
Perfluorobutane Sulfonate (PFBS)	1.6		0.20	ug/L	DV-LC-0012
Perfluorobutanioc acid (PFBA)	0.44		0.20	ug/L	DV-LC-0012
Perfluoroheptanoic acid (PFHpA)	0.61		0.30	ug/L	DV-LC-0012
Perfluorohexane Sulfonate (PFHxS)	0.33		0.30	ug/L	DV-LC-0012
Perfluorohexanoic acid (PFHxA)	0.78		0.20	ug/L	DV-LC-0012
Perfluorononanoic acid (PFNA)	0.21	J	0.40	ug/L	DV-LC-0012
Perfluorooctanoic acid (PFOA)	1.2		0.20	ug/L	DV-LC-0012
Perfluorooctane Sulfonate (PFOS)	1.3		0.30	ug/L	DV-LC-0012
Perfluoropentanoic acid (PFPA)	1.2		0.30	ug/L	DV-LC-0012
Perfluorooctane Sulfonamide	0.016	J	0.050	ug/L	PFC -FOSA
280-2464-8 MW 14-M14					
Perfluorobutane Sulfonate (PFBS)	0.47		0.40	ug/L	DV-LC-0012
Perfluorobutanioc acid (PFBA)	0.48		0.40	ug/L	DV-LC-0012
Perfluoroheptanoic acid (PFHpA)	0.84		0.60	ug/L	DV-LC-0012
Perfluorohexane Sulfonate (PFHxS)	0.50	J	0.60	ug/L	DV-LC-0012
Perfluorohexanoic acid (PFHxA)	1.3		0.40	ug/L	DV-LC-0012
Perfluorooctanoic acid (PFOA)	1.2		0.40	ug/L	DV-LC-0012
Perfluorooctane Sulfonate (PFOS)	0.54	J	0.60	ug/L	DV-LC-0012
Perfluoropentanoic acid (PFPA)	2.0		0.60	ug/L	DV-LC-0012
Perfluorooctane Sulfonamide	0.0085	J	0.050	ug/L	PFC -FOSA

EXECUTIVE SUMMARY - Detections

Client: Dalton Utilities

Job Number: 280-2464-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
280-2464-9 MW 12-D6					
Perfluorobutane Sulfonate (PFBS)	2.0		0.40	ug/L	DV-LC-0012
Perfluorobutanioc acid (PFBA)	0.58		0.40	ug/L	DV-LC-0012
Perfluorodecanoic acid (PFDA)	0.22	J	0.40	ug/L	DV-LC-0012
Perfluoroheptanoic acid (PFHpA)	0.76		0.60	ug/L	DV-LC-0012
Perfluorohexane Sulfonate (PFHxS)	0.28	J	0.60	ug/L	DV-LC-0012
Perfluorohexanoic acid (PFHxA)	1.1		0.40	ug/L	DV-LC-0012
Perfluorononanoic acid (PFNA)	0.39	J	0.79	ug/L	DV-LC-0012
Perfluoroctanoic acid (PFOA)	1.7		0.40	ug/L	DV-LC-0012
Perfluorooctane Sulfonate (PFOS)	2.0		0.60	ug/L	DV-LC-0012
Perfluoropentanoic acid (PFPA)	1.5		0.60	ug/L	DV-LC-0012
Perfluorooctane Sulfonamide	0.23		0.050	ug/L	PFC -FOSA
280-2464-10 MW 14A-D5					
Perfluorobutane Sulfonate (PFBS)	3.2		0.40	ug/L	DV-LC-0012
Perfluorobutanioc acid (PFBA)	0.56		0.40	ug/L	DV-LC-0012
Perfluorodecanoic acid (PFDA)	0.21	J	0.40	ug/L	DV-LC-0012
Perfluoroheptanoic acid (PFHpA)	0.64		0.60	ug/L	DV-LC-0012
Perfluorohexane Sulfonate (PFHxS)	0.18	J	0.60	ug/L	DV-LC-0012
Perfluorohexanoic acid (PFHxA)	0.78		0.40	ug/L	DV-LC-0012
Perfluorononanoic acid (PFNA)	0.45	J	0.80	ug/L	DV-LC-0012
Perfluoroctanoic acid (PFOA)	1.5		0.40	ug/L	DV-LC-0012
Perfluorooctane Sulfonate (PFOS)	1.2		0.60	ug/L	DV-LC-0012
Perfluoropentanoic acid (PFPA)	1.1		0.60	ug/L	DV-LC-0012
Perfluorooctane Sulfonamide	0.022	J	0.051	ug/L	PFC -FOSA
280-2464-11 MW 10-D4					
Perfluorobutane Sulfonate (PFBS)	4.2		1.0	ug/L	DV-LC-0012
Perfluorobutanioc acid (PFBA)	0.83	J	1.0	ug/L	DV-LC-0012
Perfluoroheptanoic acid (PFHpA)	1.3	J	1.5	ug/L	DV-LC-0012
Perfluorohexane Sulfonate (PFHxS)	0.87	J	1.5	ug/L	DV-LC-0012
Perfluorohexanoic acid (PFHxA)	1.5		1.0	ug/L	DV-LC-0012
Perfluoroctanoic acid (PFOA)	2.9		1.0	ug/L	DV-LC-0012
Perfluorooctane Sulfonate (PFOS)	2.7		1.5	ug/L	DV-LC-0012
Perfluoropentanoic acid (PFPA)	1.7		1.5	ug/L	DV-LC-0012
Perfluorooctane Sulfonamide	0.014	J	0.051	ug/L	PFC -FOSA
280-2464-12 MW 9-M3					
Perfluorobutanioc acid (PFBA)	0.044		0.020	ug/L	DV-LC-0012
Perfluoroheptanoic acid (PFHpA)	0.017	J	0.030	ug/L	DV-LC-0012
Perfluorohexanoic acid (PFHxA)	0.052		0.020	ug/L	DV-LC-0012
Perfluoropentanoic acid (PFPA)	0.13		0.030	ug/L	DV-LC-0012
Perfluorooctane Sulfonamide	0.0084	J	0.049	ug/L	PFC -FOSA

EXECUTIVE SUMMARY - Detections

Client: Dalton Utilities

Job Number: 280-2464-1

Lab Sample ID Analyte	Client Sample ID MW	Result / Qualifier	Reporting Limit	Units	Method
280-2464-13 MW 1-M10					
Perfluorobutane Sulfonate (PFBS)	0.14		0.020	ug/L	DV-LC-0012
Perfluorobutanioc acid (PFBA)	0.036		0.020	ug/L	DV-LC-0012
Perfluoroheptanoic acid (PFHpA)	0.018	J	0.030	ug/L	DV-LC-0012
Perfluorohexanoic acid (PFHxA)	0.029		0.020	ug/L	DV-LC-0012
Perfluoroctanoic acid (PFOA)	0.040		0.020	ug/L	DV-LC-0012
Perfluoroctane Sulfonate (PFOS)	0.018	J	0.030	ug/L	DV-LC-0012
Perfluoropentanoic acid (PFPA)	0.035		0.030	ug/L	DV-LC-0012
280-2464-14 MW 3-M11					
Perfluorobutane Sulfonate (PFBS)	0.084	J	0.20	ug/L	DV-LC-0012
Perfluorobutanioc acid (PFBA)	0.13	J	0.20	ug/L	DV-LC-0012
Perfluoroheptanoic acid (PFHpA)	0.25		0.20	ug/L	DV-LC-0012
Perfluoroctanoic acid (PFOA)	0.13	J	0.20	ug/L	DV-LC-0012
Perfluoropentanoic acid (PFPA)	0.23	J	0.30	ug/L	DV-LC-0012
Perfluoroctane Sulfonamide	0.0060	J	0.047	ug/L	PFC -FOSA
280-2464-15 MW 8-M12					
Perfluorobutane Sulfonate (PFBS)	1.7		0.40	ug/L	DV-LC-0012
Perfluorobutanioc acid (PFBA)	0.73		0.40	ug/L	DV-LC-0012
Perfluoroheptanoic acid (PFHpA)	0.98		0.60	ug/L	DV-LC-0012
Perfluorohexane Sulfonate (PFHxS)	0.42	J	0.60	ug/L	DV-LC-0012
Perfluoroheptanoic acid (PFHxA)	1.3		0.40	ug/L	DV-LC-0012
Perfluoroctanoic acid (PFOA)	2.2		0.40	ug/L	DV-LC-0012
Perfluoroctane Sulfonate (PFOS)	2.0		0.60	ug/L	DV-LC-0012
Perfluoropentanoic acid (PFPA)	2.1		0.60	ug/L	DV-LC-0012
Perfluoroctane Sulfonamide	0.025	J	0.051	ug/L	PFC -FOSA
280-2464-16 MW 4-M8					
Perfluorobutane Sulfonate (PFBS)	4.2		0.40	ug/L	DV-LC-0012
Perfluorobutanioc acid (PFBA)	0.34	J	0.40	ug/L	DV-LC-0012
Perfluoroheptanoic acid (PFHpA)	0.30	J	0.60	ug/L	DV-LC-0012
Perfluorohexanoic acid (PFHxA)	0.58		0.40	ug/L	DV-LC-0012
Perfluoroctanoic acid (PFOA)	0.72		0.40	ug/L	DV-LC-0012
Perfluoroctane Sulfonate (PFOS)	0.36	J	0.60	ug/L	DV-LC-0012
Perfluoropentanoic acid (PFPA)	0.57	J	0.60	ug/L	DV-LC-0012

EXECUTIVE SUMMARY - Detections

Client: Dalton Utilities

Job Number: 280-2464-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
280-2464-17 MW 5-M7					
Perfluorobutane Sulfonate (PFBS)	0.46		0.40	ug/L	DV-LC-0012
Perfluorobutanioc acid (PFBA)	0.44		0.40	ug/L	DV-LC-0012
Perfluoroheptanoic acid (PFHpA)	0.79		0.60	ug/L	DV-LC-0012
Perfluorohexane Sulfonate (PFHxS)	0.40	J	0.60	ug/L	DV-LC-0012
Perfluorohexanoic acid (PFHxA)	1.3		0.40	ug/L	DV-LC-0012
Perfluoroctanoic acid (PFOA)	1.5		0.40	ug/L	DV-LC-0012
Perfluorooctane Sulfonate (PFOS)	0.92		0.60	ug/L	DV-LC-0012
Perfluoropentanoic acid (PFPA)	1.8		0.60	ug/L	DV-LC-0012
280-2464-18 MW 6-M2					
Perfluorobutanioc acid (PFBA)	0.81		0.40	ug/L	DV-LC-0012
Perfluorohexanoic acid (PFHxA)	0.25	J	0.40	ug/L	DV-LC-0012
Perfluoropentanoic acid (PFPA)	1.5		0.60	ug/L	DV-LC-0012
280-2464-19 MW 7A-U2					
Perfluorobutane Sulfonate (PFBS)	0.38	J	0.40	ug/L	DV-LC-0012
Perfluorobutanioc acid (PFBA)	1.6		0.40	ug/L	DV-LC-0012
Perfluoroheptanoic acid (PFHpA)	0.90		0.60	ug/L	DV-LC-0012
Perfluorohexane Sulfonate (PFHxS)	0.28	J	0.60	ug/L	DV-LC-0012
Perfluorohexanoic acid (PFHxA)	3.3		0.40	ug/L	DV-LC-0012
Perfluoroctanoic acid (PFOA)	1.2		0.40	ug/L	DV-LC-0012
Perfluoropentanoic acid (PFPA)	5.7		0.60	ug/L	DV-LC-0012
280-2464-20 MW 7-M9					
Perfluorobutane Sulfonate (PFBS)	0.23	J	0.40	ug/L	DV-LC-0012
Perfluorobutanioc acid (PFBA)	0.60		0.40	ug/L	DV-LC-0012
Perfluoroheptanoic acid (PFHpA)	0.36	J	0.60	ug/L	DV-LC-0012
Perfluorohexanoic acid (PFHxA)	1.1		0.40	ug/L	DV-LC-0012
Perfluoroctanoic acid (PFOA)	0.34	J	0.40	ug/L	DV-LC-0012
Perfluoropentanoic acid (PFPA)	2.7		0.60	ug/L	DV-LC-0012

EXECUTIVE SUMMARY - Detections

Client: Dalton Utilities

Job Number: 280-2464-1

Lab Sample ID Analyte	Client Sample ID Result / Qualifier	Reporting Limit	Units	Method	
280-2464-21 MW 21-D2					
Perfluorobutane Sulfonate (PFBS)	1.5	0.40	ug/L	DV-LC-0012	
Perfluorobutanoic acid (PFBA)	0.36	J	0.40	ug/L	DV-LC-0012
Perfluorodecanoic acid (PFDA)	0.21	J	0.40	ug/L	DV-LC-0012
Perfluoroheptanoic acid (PFHpA)	0.69		0.60	ug/L	DV-LC-0012
Perfluorohexane Sulfonate (PFHxS)	0.39	J	0.60	ug/L	DV-LC-0012
Perfluorohexanoic acid (PFHxA)	0.82		0.40	ug/L	DV-LC-0012
Perfluoroctanoic acid (PFOA)	1.8		0.40	ug/L	DV-LC-0012
Perfluoroctane Sulfonate (PFOS)	3.6		0.60	ug/L	DV-LC-0012
Perfluoropentanoic acid (PFPA)	1.2		0.60	ug/L	DV-LC-0012
Perfluoroctane Sulfonamide	0.17		0.051	ug/L	PFC -FOSA
280-2464-22 MW 22-M1					
Perfluorobutane Sulfonate (PFBS)	0.28	J	0.40	ug/L	DV-LC-0012
Perfluoroheptanoic acid (PFHpA)	0.36	J	0.60	ug/L	DV-LC-0012
Perfluorohexane Sulfonate (PFHxS)	0.30	J	0.60	ug/L	DV-LC-0012
Perfluorohexanoic acid (PFHxA)	0.41		0.40	ug/L	DV-LC-0012
Perfluoroctanoic acid (PFOA)	0.91		0.40	ug/L	DV-LC-0012
Perfluoroctane Sulfonate (PFOS)	1.3		0.60	ug/L	DV-LC-0012
Perfluoropentanoic acid (PFPA)	0.45	J	0.60	ug/L	DV-LC-0012
Perfluoroctane Sulfonamide	0.015	J	0.048	ug/L	PFC -FOSA
280-2464-24 MW 21-D1					
Perfluorobutane Sulfonate (PFBS)	1.1		1.0	ug/L	DV-LC-0012
Perfluoroheptanoic acid (PFHpA)	0.71	J	1.5	ug/L	DV-LC-0012
Perfluorohexane Sulfonate (PFHxS)	0.48	J	1.5	ug/L	DV-LC-0012
Perfluorohexanoic acid (PFHxA)	0.66	J	1.0	ug/L	DV-LC-0012
Perfluoroctanoic acid (PFOA)	2.0		1.0	ug/L	DV-LC-0012
Perfluoroctane Sulfonate (PFOS)	4.6		1.5	ug/L	DV-LC-0012
Perfluoropentanoic acid (PFPA)	0.88	J	1.5	ug/L	DV-LC-0012
Perfluoroctane Sulfonamide	0.16		0.051	ug/L	PFC -FOSA
280-2464-25 MW 20-D3					
Perfluorobutane Sulfonate (PFBS)	0.27		0.10	ug/L	DV-LC-0012
Perfluorobutanoic acid (PFBA)	0.21		0.10	ug/L	DV-LC-0012
Perfluoroheptanoic acid (PFHpA)	0.11	J	0.15	ug/L	DV-LC-0012
Perfluorohexane Sulfonate (PFHxS)	0.050	J	0.15	ug/L	DV-LC-0012
Perfluorohexanoic acid (PFHxA)	0.23		0.10	ug/L	DV-LC-0012
Perfluoroctanoic acid (PFOA)	0.17		0.10	ug/L	DV-LC-0012
Perfluoropentanoic acid (PFPA)	0.47		0.15	ug/L	DV-LC-0012
Perfluoroctane Sulfonamide	0.0097	J	0.050	ug/L	PFC -FOSA

EXECUTIVE SUMMARY - Detections

Client: Dalton Utilities

Job Number: 280-2464-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
280-2464-26 MW 16A-M15					
Perfluorobutane Sulfonate (PFBS)	8.6		1.0	ug/L	DV-LC-0012
Perfluorobutanioc acid (PFBA)	0.84	J	1.0	ug/L	DV-LC-0012
Perfluorodecanoic acid (PFDA)	0.41	J	1.0	ug/L	DV-LC-0012
Perfluoroheptanoic acid (PFHpA)	1.4	J	1.5	ug/L	DV-LC-0012
Perfluorohexane Sulfonate (PFHxS)	0.51	J	1.5	ug/L	DV-LC-0012
Perfluorohexanoic acid (PFHxA)	1.4		1.0	ug/L	DV-LC-0012
Perfluorononanoic acid (PFNA)	1.1	J	2.0	ug/L	DV-LC-0012
Perfluoroctanoic acid (PFOA)	3.3		1.0	ug/L	DV-LC-0012
Perfluorooctane Sulfonate (PFOS)	5.4		1.5	ug/L	DV-LC-0012
Perfluoropentanoic acid (PFPA)	1.9		1.5	ug/L	DV-LC-0012
Perfluorooctane Sulfonamide	0.017	J	0.050	ug/L	PFC -FOSA
280-2464-27 MW 19A-U3					
Perfluorobutane Sulfonate (PFBS)	0.28		0.099	ug/L	DV-LC-0012
Perfluorobutanioc acid (PFBA)	0.14		0.099	ug/L	DV-LC-0012
Perfluoroheptanoic acid (PFHpA)	0.30		0.15	ug/L	DV-LC-0012
Perfluorohexane Sulfonate (PFHxS)	0.20		0.15	ug/L	DV-LC-0012
Perfluorohexanoic acid (PFHxA)	0.42		0.099	ug/L	DV-LC-0012
Perfluoroctanoic acid (PFOA)	0.48		0.099	ug/L	DV-LC-0012
Perfluorooctane Sulfonate (PFOS)	0.36		0.15	ug/L	DV-LC-0012
Perfluoropentanoic acid (PFPA)	0.55		0.15	ug/L	DV-LC-0012
280-2464-28 MW 18-D9					
Perfluorobutane Sulfonate (PFBS)	3.9		0.40	ug/L	DV-LC-0012
Perfluorobutanioc acid (PFBA)	0.58		0.40	ug/L	DV-LC-0012
Perfluoroheptanoic acid (PFHpA)	0.84		0.60	ug/L	DV-LC-0012
Perfluorohexane Sulfonate (PFHxS)	0.39	J	0.60	ug/L	DV-LC-0012
Perfluorohexanoic acid (PFHxA)	1.0		0.40	ug/L	DV-LC-0012
Perfluoroctanoic acid (PFOA)	1.8		0.40	ug/L	DV-LC-0012
Perfluorooctane Sulfonate (PFOS)	2.0		0.60	ug/L	DV-LC-0012
Perfluoropentanoic acid (PFPA)	1.3		0.60	ug/L	DV-LC-0012
Perfluorooctane Sulfonamide	0.0065	J	0.052	ug/L	PFC -FOSA
280-2464-29 MW 17A-M6A					
Perfluorobutane Sulfonate (PFBS)	0.32		0.10	ug/L	DV-LC-0012
Perfluoroheptanoic acid (PFHpA)	0.080	J	0.15	ug/L	DV-LC-0012
Perfluorohexanoic acid (PFHxA)	0.085	J	0.10	ug/L	DV-LC-0012
Perfluoroctanoic acid (PFOA)	0.18		0.10	ug/L	DV-LC-0012
Perfluorooctane Sulfonate (PFOS)	0.080	J	0.15	ug/L	DV-LC-0012
Perfluoropentanoic acid (PFPA)	0.11	J	0.15	ug/L	DV-LC-0012

EXECUTIVE SUMMARY - Detections

Client: Dalton Utilities

Job Number: 280-2464-1

Lab Sample ID Analyte	Client Sample ID Result / Qualifier		Reporting Limit	Units	Method
280-2464-30 MW 19-M4					
Perfluorobutane Sulfonate (PFBS)	0.41		0.40	ug/L	DV-LC-0012
Perfluorobutanioc acid (PFBA)	0.37	J	0.40	ug/L	DV-LC-0012
Perfluoroheptanoic acid (PFHpA)	0.93		0.60	ug/L	DV-LC-0012
Perfluorohexane Sulfonate (PFHxS)	0.69		0.60	ug/L	DV-LC-0012
Perfluorohexanoic acid (PFHxA)	1.3		0.40	ug/L	DV-LC-0012
Perfluoroctanoic acid (PFOA)	2.1		0.40	ug/L	DV-LC-0012
Perfluoroctane Sulfonate (PFOS)	3.1		0.60	ug/L	DV-LC-0012
Perfluoropentanoic acid (PFPA)	1.6		0.60	ug/L	DV-LC-0012
Perfluoroctane Sulfonamide	0.030	J	0.051	ug/L	PFC -FOSA
280-2464-31 MW 13A-D8					
Perfluorobutane Sulfonate (PFBS)	4.0		1.0	ug/L	DV-LC-0012
Perfluorobutanioc acid (PFBA)	0.93	J	1.0	ug/L	DV-LC-0012
Perfluorodecanoic acid (PFDA)	0.58	J	1.0	ug/L	DV-LC-0012
Perfluoroheptanoic acid (PFHpA)	2.2		1.5	ug/L	DV-LC-0012
Perfluorohexane Sulfonate (PFHxS)	1.4	J	1.5	ug/L	DV-LC-0012
Perfluorohexanoic acid (PFHxA)	2.2		1.0	ug/L	DV-LC-0012
Perfluoroctanoic acid (PFOA)	5.9		1.0	ug/L	DV-LC-0012
Perfluoroctane Sulfonate (PFOS)	9.8		1.5	ug/L	DV-LC-0012
Perfluoropentanoic acid (PFPA)	2.8		1.5	ug/L	DV-LC-0012
Perfluoroctane Sulfonamide	0.28		0.25	ug/L	PFC -FOSA
280-2464-32 MW 12A-D7					
Perfluorobutane Sulfonate (PFBS)	0.80		0.40	ug/L	DV-LC-0012
Perfluorobutanioc acid (PFBA)	0.47		0.40	ug/L	DV-LC-0012
Perfluoroheptanoic acid (PFHpA)	0.82		0.60	ug/L	DV-LC-0012
Perfluorohexane Sulfonate (PFHxS)	0.43	J	0.60	ug/L	DV-LC-0012
Perfluorohexanoic acid (PFHxA)	1.2		0.40	ug/L	DV-LC-0012
Perfluoroctanoic acid (PFOA)	1.5		0.40	ug/L	DV-LC-0012
Perfluoroctane Sulfonate (PFOS)	1.1		0.60	ug/L	DV-LC-0012
Perfluoropentanoic acid (PFPA)	1.6		0.60	ug/L	DV-LC-0012
Perfluoroctane Sulfonamide	0.028	J	0.055	ug/L	PFC -FOSA

EXECUTIVE SUMMARY - Detections

Client: Dalton Utilities

Job Number: 280-2464-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
280-2464-33 MW 13-M13					
Perfluorobutane Sulfonate (PFBS)	3.0		0.40	ug/L	DV-LC-0012
Perfluorobutanioc acid (PFBA)	0.93		0.40	ug/L	DV-LC-0012
Perfluoroheptanoic acid (PFHpA)	1.8		0.60	ug/L	DV-LC-0012
Perfluorohexane Sulfonate (PFHxS)	1.1		0.60	ug/L	DV-LC-0012
Perfluorohexanoic acid (PFHxA)	2.3		0.40	ug/L	DV-LC-0012
Perfluorononanoic acid (PFNA)	0.59	J	0.80	ug/L	DV-LC-0012
Perfluorooctanoic acid (PFOA)	3.5		0.40	ug/L	DV-LC-0012
Perfluorooctane Sulfonate (PFOS)	2.4		0.60	ug/L	DV-LC-0012
Perfluoropentanoic acid (PFPA)	2.9		0.60	ug/L	DV-LC-0012
Perfluorooctane Sulfonamide	0.027	J	0.048	ug/L	PFC -FOSA
280-2464-34 R1 BROWNS					
Perfluorobutane Sulfonate (PFBS)	0.0088	J	0.020	ug/L	DV-LC-0012
Perfluorohexanoic acid (PFHxA)	0.0047	J	0.020	ug/L	DV-LC-0012
Perfluorooctanoic acid (PFOA)	0.011	J	0.020	ug/L	DV-LC-0012
Perfluorooctane Sulfonate (PFOS)	0.016	J	0.030	ug/L	DV-LC-0012
280-2464-35 R2 TILTON					
Perfluorobutane Sulfonate (PFBS)	0.20		0.020	ug/L	DV-LC-0012
Perfluorobutanioc acid (PFBA)	0.036		0.020	ug/L	DV-LC-0012
Perfluorodecanoic acid (PFDA)	0.033		0.020	ug/L	DV-LC-0012
Perfluoroheptanoic acid (PFHpA)	0.046		0.029	ug/L	DV-LC-0012
Perfluorohexane Sulfonate (PFHxS)	0.024	J	0.029	ug/L	DV-LC-0012
Perfluorohexanoic acid (PFHxA)	0.076		0.020	ug/L	DV-LC-0012
Perfluorononanoic acid (PFNA)	0.020	J	0.039	ug/L	DV-LC-0012
Perfluorooctanoic acid (PFOA)	0.14		0.020	ug/L	DV-LC-0012
Perfluorooctane Sulfonate (PFOS)	0.35		0.029	ug/L	DV-LC-0012
Perfluoropentanoic acid (PFPA)	0.096		0.029	ug/L	DV-LC-0012
Perfluoroundecanoic acid (PFUnA)	0.011	J	0.020	ug/L	DV-LC-0012
Perfluorooctane Sulfonamide	0.040	J	0.051	ug/L	PFC -FOSA
280-2464-36 R3 FOX					
Perfluorohexanoic acid (PFHxA)	0.020		0.020	ug/L	DV-LC-0012
Perfluorooctanoic acid (PFOA)	0.022		0.020	ug/L	DV-LC-0012
Perfluorooctane Sulfonate (PFOS)	0.023	J	0.030	ug/L	DV-LC-0012
Perfluoropentanoic acid (PFPA)	0.023	J	0.030	ug/L	DV-LC-0012

EXECUTIVE SUMMARY - Detections

Client: Dalton Utilities

Job Number: 280-2464-1

Lab Sample ID	Client Sample ID		Reporting Limit	Units	Method
Analyte		Result / Qualifier			
280-2464-37	R4 CONFLUENT				
Perfluorobutane Sulfonate (PFBS)	1.0		0.099	ug/L	DV-LC-0012
Perfluorobutanoic acid (PFBA)	0.14		0.099	ug/L	DV-LC-0012
Perfluorodecanoic acid (PFDA)	0.11		0.099	ug/L	DV-LC-0012
Perfluoroheptanoic acid (PFHpA)	0.12	J	0.15	ug/L	DV-LC-0012
Perfluorohexane Sulfonate (PFHxS)	0.055	J	0.15	ug/L	DV-LC-0012
Perfluorohexanoic acid (PFHxA)	0.19		0.099	ug/L	DV-LC-0012
Perfluorooctanoic acid (PFOA)	0.31		0.099	ug/L	DV-LC-0012
Perfluorooctane Sulfonate (PFOS)	1.2		0.15	ug/L	DV-LC-0012
Perfluoropentanoic acid (PFPA)	0.32		0.15	ug/L	DV-LC-0012
Perfluorooctane Sulfonamide	0.21		0.055	ug/L	PFC -FOSA

METHOD SUMMARY



Client: Dalton Utilities

Job Number: 280-2464-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Perfluorinated Hydrocarbons	TAL DEN	TAL-DEN DV-LC-0012	
Solid-Phase Extraction (SPE)	TAL DEN		SW846 3535
FOSA in Water (LC/MS/MS)	TAL DEN	TAL-DEN PFC -FOSA	
Solid-Phase Extraction (SPE)	TAL DEN		SW846 3535

Lab References:

TAL DEN = TestAmerica Denver

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-DEN = TestAmerica Laboratories, Denver, Facility Standard Operating Procedure.

METHOD / ANALYST SUMMARY

Client: Dalton Utilities

Job Number: 280-2464-1

Method	Analyst	Analyst ID
TAL-DEN DV-LC-0012	Meyer, Andrew GC	AGCM
TAL-DEN PFC -FOSA	Meyer, Andrew GC	AGCM

Analytical Data

Client: Dalton Utilities

Job Number: 280-2464-1

Client Sample ID: MW 16-M5

Lab Sample ID: 280-2464-1

Date Sampled: 04/12/2010 0806

Client Matrix: Water

Date Received: 04/16/2010 0900

DV-LC-0012 Perfluorinated Hydrocarbons

Method:	DV-LC-0012	Analysis Batch:	280-13803	Instrument ID:	LC_LCMS5
Preparation:	3535	Prep Batch:	280-11478	Lab File ID:	pc50E04038.d
Dilution:	20			Initial Weight/Volume:	252.9 mL
Date Analyzed:	05/04/2010 1850			Final Weight/Volume:	5000 uL
Date Prepared:	04/19/2010 1225			Injection Volume:	30 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Perfluorobutane Sulfonate (PFBS)	1.9		0.16	0.40
Perfluorobutanoic acid (PFBA)	0.42		0.19	0.40
Perfluorodecanoic acid (PFDA)	ND		0.15	0.40
Perfluorododecanoic acid (PFDoA)	ND		0.29	0.59
Perfluoroheptanoic acid (PFHpA)	0.92		0.26	0.59
Perfluorohexane Sulfonate (PFHxS)	0.64		0.14	0.59
Perfluorohexanoic acid (PFHxA)	1.2		0.058	0.40
Perfluorononanoic acid (PFNA)	0.41	J	0.34	0.79
Perfluoroctanoic acid (PFOA)	2.3		0.19	0.40
Perfluorooctane Sulfonate (PFOS)	3.1		0.26	0.59
Perfluoropentanoic acid (PFPA)	1.4		0.22	0.59
Perfluorotetradecanoic acid (PFTeA)	ND		0.29	0.59
Perfluorotridecanoic Acid (PFTriA)	ND		0.35	0.79
Perfluoroundecanoic acid (PFUnA)	ND		0.14	0.40

Surrogate	%Rec	Qualifier	Acceptance Limits
13C4 PFOA	104		60 - 155
13C4 PFOS	96		45 - 130
13C4 PFBA	109		36 - 130
13C2 PFHxA	100		55 - 135
13C5 PFNA	105		54 - 132
13C2 PFDA	100		53 - 130
13C2 PFUnA	102		37 - 130
13C2 PFDoA	94		26 - 130
18O2 PFHxS	101		61 - 130

Analytical Data

Client: Dalton Utilities

Job Number: 280-2464-1

Client Sample ID: MW 16B-D12

Lab Sample ID: 280-2464-2

Date Sampled: 04/12/2010 0817

Client Matrix: Water

Date Received: 04/16/2010 0900

DV-LC-0012 Perfluorinated Hydrocarbons

Method:	DV-LC-0012	Analysis Batch:	280-13803	Instrument ID:	LC_LCMS5
Preparation:	3535	Prep Batch:	280-11478	Lab File ID:	pc50E04039.d
Dilution:	5.0			Initial Weight/Volume:	252.4 mL
Date Analyzed:	05/04/2010 1902			Final Weight/Volume:	5000 uL
Date Prepared:	04/19/2010 1225			Injection Volume:	30 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Perfluorobutane Sulfonate (PFBS)	0.33		0.041	0.099
Perfluorobutanoic acid (PFBA)	0.083	J	0.049	0.099
Perfluorodecanoic acid (PFDA)	ND		0.039	0.099
Perfluorododecanoic acid (PFDoA)	ND		0.074	0.15
Perfluoroheptanoic acid (PFHpA)	0.084	J	0.065	0.15
Perfluorohexane Sulfonate (PFHxS)	ND		0.035	0.15
Perfluorohexanoic acid (PFHxA)	0.10		0.014	0.099
Perfluorononanoic acid (PFNA)	ND		0.086	0.20
Perfluoroctanoic acid (PFOA)	0.17		0.048	0.099
Perfluorooctane Sulfonate (PFOS)	0.28		0.066	0.15
Perfluoropentanoic acid (PFPA)	0.15		0.054	0.15
Perfluorotetradecanoic acid (PFTeA)	ND		0.072	0.15
Perfluorotridecanoic Acid (PFTriA)	ND		0.088	0.20
Perfluoroundecanoic acid (PFUnA)	ND		0.034	0.099

Surrogate	%Rec	Qualifier	Acceptance Limits
13C4 PFOA	121		60 - 155
13C4 PFOS	108		45 - 130
13C4 PFBA	124		36 - 130
13C2 PFHxA	117		55 - 135
13C5 PFNA	118		54 - 132
13C2 PFDA	110		53 - 130
13C2 PFUnA	107		37 - 130
13C2 PFDoA	100		26 - 130
18O2 PFHxS	111		61 - 130

Analytical Data

Client: Dalton Utilities

Job Number: 280-2464-1

Client Sample ID: MW 17-D11

Lab Sample ID: 280-2464-3

Date Sampled: 04/12/2010 0832

Client Matrix: Water

Date Received: 04/16/2010 0900

DV-LC-0012 Perfluorinated Hydrocarbons

Method:	DV-LC-0012	Analysis Batch:	280-13803	Instrument ID:	LC_LCMS5
Preparation:	3535	Prep Batch:	280-11478	Lab File ID:	pc50E04040.d
Dilution:	1.0			Initial Weight/Volume:	250.3 mL
Date Analyzed:	05/04/2010 1915			Final Weight/Volume:	5000 uL
Date Prepared:	04/19/2010 1225			Injection Volume:	30 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Perfluorobutane Sulfonate (PFBS)	ND		0.0082	0.020
Perfluorobutanoic acid (PFBA)	ND		0.0098	0.020
Perfluorodecanoic acid (PFDA)	ND		0.0078	0.020
Perfluorododecanoic acid (PFDa)	ND		0.015	0.030
Perfluoroheptanoic acid (PFHpA)	ND		0.013	0.030
Perfluorohexane Sulfonate (PFHxS)	ND		0.0070	0.030
Perfluorohexanoic acid (PFHxA)	ND		0.0029	0.020
Perfluorononanoic acid (PFNA)	ND		0.017	0.040
Perfluooctanoic acid (PFOA)	ND		0.0098	0.020
Perfluooctane Sulfonate (PFOS)	ND		0.013	0.030
Perfluoropentanoic acid (PFPA)	ND		0.011	0.030
Perfluorotetradecanoic acid (PFTeA)	ND		0.015	0.030
Perfluorotridecanoic Acid (PFTriA)	ND		0.018	0.040
Perfluoroundecanoic acid (PFUnA)	ND		0.0069	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
13C4 PFOA	97		60 - 155
13C4 PFOS	50		45 - 130
13C4 PFBA	122		36 - 130
13C2 PFHxA	104		55 - 135
13C5 PFNA	79		54 - 132
13C2 PFDA	53		53 - 130
13C2 PFUnA	46		37 - 130
13C2 PFDa	41		26 - 130
18O2 PFHxS	95		61 - 130

Analytical Data

Client: Dalton Utilities

Job Number: 280-2464-1

Client Sample ID: MW 15A-M16

Lab Sample ID: 280-2464-4

Date Sampled: 04/12/2010 0850

Client Matrix: Water

Date Received: 04/16/2010 0900

DV-LC-0012 Perfluorinated Hydrocarbons

Method:	DV-LC-0012	Analysis Batch:	280-13803	Instrument ID:	LC_LCMS5
Preparation:	3535	Prep Batch:	280-11478	Lab File ID:	pc50E04041.d
Dilution:	10			Initial Weight/Volume:	250.6 mL
Date Analyzed:	05/04/2010 1928			Final Weight/Volume:	5000 uL
Date Prepared:	04/19/2010 1225			Injection Volume:	30 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Perfluorobutane Sulfonate (PFBS)	0.79		0.082	0.20
Perfluorobutanoic acid (PFBA)	0.30		0.098	0.20
Perfluorodecanoic acid (PFDA)	ND		0.078	0.20
Perfluorododecanoic acid (PFDoA)	ND		0.15	0.30
Perfluoroheptanoic acid (PFHpA)	0.23	J	0.13	0.30
Perfluorohexane Sulfonate (PFHxS)	0.070	J	0.070	0.30
Perfluorohexanoic acid (PFHxA)	0.41		0.029	0.20
Perfluorononanoic acid (PFNA)	ND		0.17	0.40
Perfluooctanoic acid (PFOA)	0.28		0.098	0.20
Perfluorooctane Sulfonate (PFOS)	ND		0.13	0.30
Perfluoropentanoic acid (PFPA)	0.53		0.11	0.30
Perfluorotetradecanoic acid (PFTeA)	ND		0.15	0.30
Perfluorotridecanoic Acid (PFTriA)	ND		0.18	0.40
Perfluoroundecanoic acid (PFUnA)	ND		0.069	0.20

Surrogate	%Rec	Qualifier	Acceptance Limits
13C4 PFOA	103		60 - 155
13C4 PFOS	92		45 - 130
13C4 PFBA	94		36 - 130
13C2 PFHxA	102		55 - 135
13C5 PFNA	105		54 - 132
13C2 PFDA	97		53 - 130
13C2 PFUnA	99		37 - 130
13C2 PFDoA	92		26 - 130
18O2 PFHxS	96		61 - 130

Analytical Data

Client: Dalton Utilities

Job Number: 280-2464-1

Client Sample ID: MW 15-M17

Lab Sample ID: 280-2464-5

Date Sampled: 04/12/2010 0912

Client Matrix: Water

Date Received: 04/16/2010 0900

DV-LC-0012 Perfluorinated Hydrocarbons

Method:	DV-LC-0012	Analysis Batch: 280-13803	Instrument ID:	LC_LCMS5
Preparation:	3535	Prep Batch: 280-11478	Lab File ID:	pc50E04042.d
Dilution:	50		Initial Weight/Volume:	252.0 mL
Date Analyzed:	05/04/2010 1941		Final Weight/Volume:	5000 uL
Date Prepared:	04/19/2010 1225		Injection Volume:	30 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Perfluorobutane Sulfonate (PFBS)	13		0.41	0.99
Perfluorobutanoic acid (PFBA)	1.3		0.49	0.99
Perfluorodecanoic acid (PFDA)	0.55	J	0.39	0.99
Perfluorododecanoic acid (PFDoA)	ND		0.74	1.5
Perfluoroheptanoic acid (PFHpA)	1.1	J	0.65	1.5
Perfluorohexane Sulfonate (PFHxS)	ND		0.35	1.5
Perfluorohexanoic acid (PFHxA)	1.6		0.14	0.99
Perfluorononanoic acid (PFNA)	ND		0.86	2.0
Perfluorooctanoic acid (PFOA)	2.8		0.49	0.99
Perfluorooctane Sulfonate (PFOS)	2.2		0.66	1.5
Perfluoropentanoic acid (PFPA)	2.5		0.54	1.5
Perfluorotetradecanoic acid (PFTeA)	ND		0.72	1.5
Perfluorotridecanoic Acid (PFTriA)	ND		0.88	2.0
Perfluoroundecanoic acid (PFUnA)	ND		0.34	0.99

Surrogate	%Rec	Qualifier	Acceptance Limits
13C4 PFOA	105		60 - 155
13C4 PFOS	101		45 - 130
13C4 PFBA	104		36 - 130
13C2 PFHxA	104		55 - 135
13C5 PFNA	108		54 - 132
13C2 PFDA	105		53 - 130
13C2 PFUnA	105		37 - 130
13C2 PFDoA	103		26 - 130
18O2 PFHxS	105		61 - 130

Analytical Data

Client: Dalton Utilities

Job Number: 280-2464-1

Client Sample ID: MW 15B-D13

Lab Sample ID: 280-2464-6

Date Sampled: 04/12/2010 0930

Client Matrix: Water

Date Received: 04/16/2010 0900

DV-LC-0012 Perfluorinated Hydrocarbons

Method:	DV-LC-0012	Analysis Batch:	280-13803	Instrument ID:	LC_LCMS5
Preparation:	3535	Prep Batch:	280-11478	Lab File ID:	pc50E04043.d
Dilution:	50			Initial Weight/Volume:	251.8 mL
Date Analyzed:	05/04/2010 1954			Final Weight/Volume:	5000 uL
Date Prepared:	04/19/2010 1225			Injection Volume:	30 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Perfluorobutane Sulfonate (PFBS)	1.3		0.41	0.99
Perfluorobutanoic acid (PFBA)	0.71	J	0.49	0.99
Perfluorodecanoic acid (PFDA)	ND		0.39	0.99
Perfluorododecanoic acid (PFDaA)	ND		0.74	1.5
Perfluoroheptanoic acid (PFHpA)	2.1		0.65	1.5
Perfluorohexane Sulfonate (PFHxS)	1.8		0.35	1.5
Perfluorohexanoic acid (PFHxA)	2.0		0.14	0.99
Perfluorononanoic acid (PFNA)	ND		0.87	2.0
Perfluorooctanoic acid (PFOA)	6.4		0.49	0.99
Perfluorooctane Sulfonate (PFOS)	14		0.66	1.5
Perfluoropentanoic acid (PFPA)	2.1		0.54	1.5
Perfluorotetradecanoic acid (PFTeA)	ND		0.72	1.5
Perfluorotridecanoic Acid (PFTriA)	ND		0.88	2.0
Perfluoroundecanoic acid (PFUnA)	ND		0.34	0.99

Surrogate	%Rec	Qualifier	Acceptance Limits
13C4 PFOA	109		60 - 155
13C4 PFOS	105		45 - 130
13C4 PFBA	109		36 - 130
13C2 PFHxA	112		55 - 135
13C5 PFNA	108		54 - 132
13C2 PFDA	108		53 - 130
13C2 PFUnA	108		37 - 130
13C2 PFDaA	107		26 - 130
18O2 PFHxS	108		61 - 130

Analytical Data

Client: Dalton Utilities

Job Number: 280-2464-1

Client Sample ID: MW 14B-D14

Lab Sample ID: 280-2464-7

Date Sampled: 04/12/2010 0956

Client Matrix: Water

Date Received: 04/16/2010 0900

DV-LC-0012 Perfluorinated Hydrocarbons

Method:	DV-LC-0012	Analysis Batch:	280-13803	Instrument ID:	LC_LCMS5
Preparation:	3535	Prep Batch:	280-11478	Lab File ID:	pc50E04044.d
Dilution:	10			Initial Weight/Volume:	251.4 mL
Date Analyzed:	05/04/2010 2006			Final Weight/Volume:	5000 uL
Date Prepared:	04/19/2010 1225			Injection Volume:	30 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Perfluorobutane Sulfonate (PFBS)	1.6		0.082	0.20
Perfluorobutanoic acid (PFBA)	0.44		0.097	0.20
Perfluorodecanoic acid (PFDA)	ND		0.078	0.20
Perfluorododecanoic acid (PFDa)	ND		0.15	0.30
Perfluoroheptanoic acid (PFHpA)	0.61		0.13	0.30
Perfluorohexane Sulfonate (PFHxS)	0.33		0.069	0.30
Perfluorohexanoic acid (PFHxA)	0.78		0.029	0.20
Perfluorononanoic acid (PFNA)	0.21	J	0.17	0.40
Perfluooctanoic acid (PFOA)	1.2		0.097	0.20
Perfluorooctane Sulfonate (PFOS)	1.3		0.13	0.30
Perfluoropentanoic acid (PFPA)	1.2		0.11	0.30
Perfluorotetradecanoic acid (PFTeA)	ND		0.14	0.30
Perfluorotridecanoic Acid (PFTriA)	ND		0.18	0.40
Perfluoroundecanoic acid (PFUnA)	ND		0.069	0.20

Surrogate	%Rec	Qualifier	Acceptance Limits
13C4 PFOA	113		60 - 155
13C4 PFOS	108		45 - 130
13C4 PFBA	118		36 - 130
13C2 PFHxA	109		55 - 135
13C5 PFNA	116		54 - 132
13C2 PFDA	110		53 - 130
13C2 PFUnA	110		37 - 130
13C2 PFDa	103		26 - 130
18O2 PFHxS	105		61 - 130

Analytical Data

Client: Dalton Utilities

Job Number: 280-2464-1

Client Sample ID: MW 14-M14

Lab Sample ID: 280-2464-8

Date Sampled: 04/12/2010 1017

Client Matrix: Water

Date Received: 04/16/2010 0900

DV-LC-0012 Perfluorinated Hydrocarbons

Method:	DV-LC-0012	Analysis Batch:	280-13803	Instrument ID:	LC_LCMS5
Preparation:	3535	Prep Batch:	280-11478	Lab File ID:	pc50E04046.d
Dilution:	20			Initial Weight/Volume:	251.6 mL
Date Analyzed:	05/04/2010 2032			Final Weight/Volume:	5000 uL
Date Prepared:	04/19/2010 1225			Injection Volume:	30 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Perfluorobutane Sulfonate (PFBS)	0.47		0.16	0.40
Perfluorobutanoic acid (PFBA)	0.48		0.19	0.40
Perfluorodecanoic acid (PFDA)	ND		0.16	0.40
Perfluorododecanoic acid (PFDoA)	ND		0.30	0.60
Perfluoroheptanoic acid (PFHpA)	0.84		0.26	0.60
Perfluorohexane Sulfonate (PFHxS)	0.50	J	0.14	0.60
Perfluorohexanoic acid (PFHxA)	1.3		0.058	0.40
Perfluorononanoic acid (PFNA)	ND		0.35	0.79
Perfluooctanoic acid (PFOA)	1.2		0.19	0.40
Perfluorooctane Sulfonate (PFOS)	0.54	J	0.26	0.60
Perfluoropentanoic acid (PFPA)	2.0		0.22	0.60
Perfluorotetradecanoic acid (PFTeA)	ND		0.29	0.60
Perfluorotridecanoic Acid (PFTriA)	ND		0.35	0.79
Perfluoroundecanoic acid (PFUnA)	ND		0.14	0.40

Surrogate	%Rec	Qualifier	Acceptance Limits
13C4 PFOA	102		60 - 155
13C4 PFOS	97		45 - 130
13C4 PFBA	105		36 - 130
13C2 PFHxA	99		55 - 135
13C5 PFNA	107		54 - 132
13C2 PFDA	100		53 - 130
13C2 PFUnA	99		37 - 130
13C2 PFDoA	100		26 - 130
18O2 PFHxS	95		61 - 130

Analytical Data

Client: Dalton Utilities

Job Number: 280-2464-1

Client Sample ID: MW 12-D6

Lab Sample ID: 280-2464-9

Date Sampled: 04/12/2010 1032

Client Matrix: Water

Date Received: 04/16/2010 0900

DV-LC-0012 Perfluorinated Hydrocarbons

Method:	DV-LC-0012	Analysis Batch:	280-13803	Instrument ID:	LC_LCMS5
Preparation:	3535	Prep Batch:	280-11478	Lab File ID:	pc50E04047.d
Dilution:	20			Initial Weight/Volume:	251.8 mL
Date Analyzed:	05/04/2010 2045			Final Weight/Volume:	5000 uL
Date Prepared:	04/19/2010 1225			Injection Volume:	30 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Perfluorobutane Sulfonate (PFBS)	2.0		0.16	0.40
Perfluorobutanoic acid (PFBA)	0.58		0.19	0.40
Perfluorodecanoic acid (PFDA)	0.22	J	0.16	0.40
Perfluorododecanoic acid (PFDoA)	ND		0.30	0.60
Perfluoroheptanoic acid (PFHpA)	0.76		0.26	0.60
Perfluorohexane Sulfonate (PFHxS)	0.28	J	0.14	0.60
Perfluorohexanoic acid (PFHxA)	1.1		0.058	0.40
Perfluorononanoic acid (PFNA)	0.39	J	0.35	0.79
Perfluooctanoic acid (PFOA)	1.7		0.19	0.40
Perfluorooctane Sulfonate (PFOS)	2.0		0.26	0.60
Perfluoropentanoic acid (PFPA)	1.5		0.22	0.60
Perfluorotetradecanoic acid (PFTeA)	ND		0.29	0.60
Perfluorotridecanoic Acid (PFTriA)	ND		0.35	0.79
Perfluoroundecanoic acid (PFUnA)	ND		0.14	0.40

Surrogate	%Rec	Qualifier	Acceptance Limits
13C4 PFOA	103		60 - 155
13C4 PFOS	96		45 - 130
13C4 PFBA	109		36 - 130
13C2 PFHxA	100		55 - 135
13C5 PFNA	104		54 - 132
13C2 PFDA	99		53 - 130
13C2 PFUnA	101		37 - 130
13C2 PFDoA	96		26 - 130
18O2 PFHxS	96		61 - 130

Analytical Data

Client: Dalton Utilities

Job Number: 280-2464-1

Client Sample ID: MW 14A-D5

Lab Sample ID: 280-2464-10

Date Sampled: 04/12/2010 1047

Client Matrix: Water

Date Received: 04/16/2010 0900

DV-LC-0012 Perfluorinated Hydrocarbons

Method:	DV-LC-0012	Analysis Batch:	280-13803	Instrument ID:	LC_LCMS5
Preparation:	3535	Prep Batch:	280-11478	Lab File ID:	pc50E04048.d
Dilution:	20			Initial Weight/Volume:	251.5 mL
Date Analyzed:	05/04/2010 2058			Final Weight/Volume:	5000 uL
Date Prepared:	04/19/2010 1225			Injection Volume:	30 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Perfluorobutane Sulfonate (PFBS)	3.2		0.16	0.40
Perfluorobutanoic acid (PFBA)	0.56		0.19	0.40
Perfluorodecanoic acid (PFDA)	0.21	J	0.16	0.40
Perfluorododecanoic acid (PFDoA)	ND		0.30	0.60
Perfluoroheptanoic acid (PFHpA)	0.64		0.26	0.60
Perfluorohexane Sulfonate (PFHxS)	0.18	J	0.14	0.60
Perfluorohexanoic acid (PFHxA)	0.78		0.058	0.40
Perfluorononanoic acid (PFNA)	0.45	J	0.35	0.80
Perfluooctanoic acid (PFOA)	1.5		0.19	0.40
Perfluooctane Sulfonate (PFOS)	1.2		0.26	0.60
Perfluoropentanoic acid (PFPA)	1.1		0.22	0.60
Perfluorotetradecanoic acid (PFTeA)	ND		0.29	0.60
Perfluorotridecanoic Acid (PFTriA)	ND		0.35	0.80
Perfluoroundecanoic acid (PFUnA)	ND		0.14	0.40

Surrogate	%Rec	Qualifier	Acceptance Limits
13C4 PFOA	103		60 - 155
13C4 PFOS	96		45 - 130
13C4 PFBA	111		36 - 130
13C2 PFHxA	100		55 - 135
13C5 PFNA	106		54 - 132
13C2 PFDA	99		53 - 130
13C2 PFUnA	104		37 - 130
13C2 PFDoA	97		26 - 130
18O2 PFHxS	99		61 - 130

Analytical Data

Client: Dalton Utilities

Job Number: 280-2464-1

Client Sample ID: MW 10-D4

Lab Sample ID: 280-2464-11

Date Sampled: 04/12/2010 1105

Client Matrix: Water

Date Received: 04/16/2010 0900

DV-LC-0012 Perfluorinated Hydrocarbons

Method:	DV-LC-0012	Analysis Batch:	280-13803	Instrument ID:	LC_LCMS5
Preparation:	3535	Prep Batch:	280-11478	Lab File ID:	pc50E04049.d
Dilution:	50			Initial Weight/Volume:	251.0 uL
Date Analyzed:	05/04/2010 2110			Final Weight/Volume:	5000 uL
Date Prepared:	04/19/2010 1225			Injection Volume:	30 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Perfluorobutane Sulfonate (PFBS)	4.2		0.41	1.0
Perfluorobutanoic acid (PFBA)	0.83	J	0.49	1.0
Perfluorodecanoic acid (PFDA)	ND		0.39	1.0
Perfluorododecanoic acid (PFDa)	ND		0.74	1.5
Perfluoroheptanoic acid (PFHpA)	1.3	J	0.65	1.5
Perfluorohexane Sulfonate (PFHxS)	0.87	J	0.35	1.5
Perfluorohexanoic acid (PFHxA)	1.5		0.14	1.0
Perfluorononanoic acid (PFNA)	ND		0.87	2.0
Perfluooctanoic acid (PFOA)	2.9		0.49	1.0
Perfluooctane Sulfonate (PFOS)	2.7		0.66	1.5
Perfluoropentanoic acid (PFPA)	1.7		0.54	1.5
Perfluorotetradecanoic acid (PFTeA)	ND		0.73	1.5
Perfluorotridecanoic Acid (PFTriA)	ND		0.88	2.0
Perfluoroundecanoic acid (PFUnA)	ND		0.34	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
13C4 PFOA	107		60 - 155
13C4 PFOS	102		45 - 130
13C4 PFBA	103		36 - 130
13C2 PFHxA	108		55 - 135
13C5 PFNA	111		54 - 132
13C2 PFDA	105		53 - 130
13C2 PFUnA	106		37 - 130
13C2 PFDa	102		26 - 130
18O2 PFHxS	104		61 - 130

Analytical Data

Client: Dalton Utilities

Job Number: 280-2464-1

Client Sample ID: MW 9-M3

Lab Sample ID: 280-2464-12

Date Sampled: 04/12/2010 1126

Client Matrix: Water

Date Received: 04/16/2010 0900

DV-LC-0012 Perfluorinated Hydrocarbons

Method:	DV-LC-0012	Analysis Batch:	280-13803	Instrument ID:	LC_LCMS5
Preparation:	3535	Prep Batch:	280-11478	Lab File ID:	pc50E04050.d
Dilution:	1.0			Initial Weight/Volume:	250.4 mL
Date Analyzed:	05/04/2010 2123			Final Weight/Volume:	5000 uL
Date Prepared:	04/19/2010 1225			Injection Volume:	30 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Perfluorobutane Sulfonate (PFBS)	ND		0.0082	0.020
Perfluorobutanoic acid (PFBA)	0.044		0.0098	0.020
Perfluorodecanoic acid (PFDA)	ND		0.0078	0.020
Perfluorododecanoic acid (PFDoA)	ND		0.015	0.030
Perfluoroheptanoic acid (PFHpA)	0.017	J	0.013	0.030
Perfluorohexane Sulfonate (PFHxS)	ND		0.0070	0.030
Perfluorohexanoic acid (PFHxA)	0.052		0.0029	0.020
Perfluorononanoic acid (PFNA)	ND		0.017	0.040
Perfluoroctanoic acid (PFOA)	ND		0.0098	0.020
Perfluorooctane Sulfonate (PFOS)	ND		0.013	0.030
Perfluoropentanoic acid (PFPA)	0.13		0.011	0.030
Perfluorotetradecanoic acid (PFTeA)	ND		0.015	0.030
Perfluorotridecanoic Acid (PFTriA)	ND		0.018	0.040
Perfluoroundecanoic acid (PFUnA)	ND		0.0069	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
13C4 PFOA	108		60 - 155
13C4 PFOS	70		45 - 130
13C4 PFBA	111		36 - 130
13C2 PFHxA	108		55 - 135
13C5 PFNA	92		54 - 132
13C2 PFDA	76		53 - 130
13C2 PFUnA	73		37 - 130
13C2 PFDoA	64		26 - 130
18O2 PFHxS	102		61 - 130

Analytical Data

Client: Dalton Utilities

Job Number: 280-2464-1

Client Sample ID: MW 1-M10

Lab Sample ID: 280-2464-13

Date Sampled: 04/12/2010 1220

Client Matrix: Water

Date Received: 04/16/2010 0900

DV-LC-0012 Perfluorinated Hydrocarbons

Method:	DV-LC-0012	Analysis Batch:	280-13803	Instrument ID:	LC_LCMS5
Preparation:	3535	Prep Batch:	280-11478	Lab File ID:	pc50E04051.d
Dilution:	1.0			Initial Weight/Volume:	251.9 mL
Date Analyzed:	05/04/2010 2136			Final Weight/Volume:	5000 uL
Date Prepared:	04/19/2010 1225			Injection Volume:	30 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Perfluorobutane Sulfonate (PFBS)	0.14		0.0082	0.020
Perfluorobutanoic acid (PFBA)	0.036		0.0097	0.020
Perfluorodecanoic acid (PFDA)	ND		0.0078	0.020
Perfluorododecanoic acid (PFDa)	ND		0.015	0.030
Perfluoroheptanoic acid (PFHpA)	0.018	J	0.013	0.030
Perfluorohexane Sulfonate (PFHxS)	ND		0.0069	0.030
Perfluorohexanoic acid (PFHxA)	0.029		0.0029	0.020
Perfluorononanoic acid (PFNA)	ND		0.017	0.040
Perfluoroctanoic acid (PFOA)	0.040		0.0097	0.020
Perfluorooctane Sulfonate (PFOS)	0.018	J	0.013	0.030
Perfluoropentanoic acid (PFPA)	0.035		0.011	0.030
Perfluorotetradecanoic acid (PFTeA)	ND		0.014	0.030
Perfluorotridecanoic Acid (PFTriA)	ND		0.018	0.040
Perfluoroundecanoic acid (PFUnA)	ND		0.0068	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
13C4 PFOA	100		60 - 155
13C4 PFOS	49		45 - 130
13C4 PFBA	105		36 - 130
13C2 PFHxA	107.		55 - 135
13C5 PFNA	76		54 - 132
13C2 PFDA	52	X	53 - 130
13C2 PFUnA	46		37 - 130
13C2 PFDa	42		26 - 130
18O2 PFHxS	95		61 - 130

Analytical Data

Client: Dalton Utilities

Job Number: 280-2464-1

Client Sample ID: MW 3-M11

Lab Sample ID: 280-2464-14

Date Sampled: 04/12/2010 1244

Client Matrix: Water

Date Received: 04/16/2010 0900

DV-LC-0012 Perfluorinated Hydrocarbons

Method:	DV-LC-0012	Analysis Batch:	280-13803	Instrument ID:	LC_LCMS5
Preparation:	3535	Prep Batch:	280-11478	Lab File ID:	pc50E04052.d
Dilution:	10			Initial Weight/Volume:	250.3 mL
Date Analyzed:	05/04/2010 2149			Final Weight/Volume:	5000 uL
Date Prepared:	04/19/2010 1225			Injection Volume:	30 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Perfluorobutane Sulfonate (PFBS)	0.084	J	0.082	0.20
Perfluorobutanoic acid (PFBA)	0.13	J	0.098	0.20
Perfluorodecanoic acid (PFDA)	ND		0.078	0.20
Perfluorododecanoic acid (PFDoA)	ND		0.15	0.30
Perfluoroheptanoic acid (PFHpA)	ND		0.13	0.30
Perfluorohexane Sulfonate (PFHxS)	ND		0.070	0.30
Perfluorohexanoic acid (PFHxA)	0.25		0.029	0.20
Perfluorononanoic acid (PFNA)	ND		0.17	0.40
Perfluooctanoic acid (PFOA)	0.13	J	0.098	0.20
Perfluorooctane Sulfonate (PFOS)	ND		0.13	0.30
Perfluoropentanoic acid (PFPA)	0.23	J	0.11	0.30
Perfluorotetradecanoic acid (PFTeA)	ND		0.15	0.30
Perfluorotridecanoic Acid (PFTriA)	ND		0.18	0.40
Perfluoroundecanoic acid (PFUnA)	ND		0.069	0.20

Surrogate	%Rec	Qualifier	Acceptance Limits
13C4 PFOA	108		60 - 155
13C4 PFOS	96		45 - 130
13C4 PFBA	104		36 - 130
13C2 PFHxA	108		55 - 135
13C5 PFNA	111		54 - 132
13C2 PFDA	102		53 - 130
13C2 PFUnA	102		37 - 130
13C2 PFDoA	95		26 - 130
18O2 PFHxS	100		61 - 130

Analytical Data

Client: Dalton Utilities

Job Number: 280-2464-1

Client Sample ID: MW 8-M12

Lab Sample ID: 280-2464-15

Date Sampled: 04/12/2010 1303

Client Matrix: Water

Date Received: 04/16/2010 0900

DV-LC-0012 Perfluorinated Hydrocarbons

Method:	DV-LC-0012	Analysis Batch: 280-13803	Instrument ID:	LC_LCMS5
Preparation:	3535	Prep Batch: 280-11478	Lab File ID:	pc50E04053.d
Dilution:	20		Initial Weight/Volume:	251.8 mL
Date Analyzed:	05/04/2010 2202		Final Weight/Volume:	5000 uL
Date Prepared:	04/19/2010 1225		Injection Volume:	30 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Perfluorobutane Sulfonate (PFBS)	1.7		0.16	0.40
Perfluorobutanoic acid (PFBA)	0.73		0.19	0.40
Perfluorodecanoic acid (PFDA)	ND		0.16	0.40
Perfluorododecanoic acid (PFDa)	ND		0.30	0.60
Perfluoroheptanoic acid (PFHpA)	0.98		0.26	0.60
Perfluorohexane Sulfonate (PFHxS)	0.42	J	0.14	0.60
Perfluorohexanoic acid (PFHxA)	1.3		0.058	0.40
Perfluorononanoic acid (PFNA)	ND		0.35	0.79
Perfluorooctanoic acid (PFOA)	2.2		0.19	0.40
Perfluorooctane Sulfonate (PFOS)	2.0		0.26	0.60
Perfluoropentanoic acid (PFPA)	2.1		0.22	0.60
Perfluorotetradecanoic acid (PFTeA)	ND		0.29	0.60
Perfluorotridecanoic Acid (PFTriA)	ND		0.35	0.79
Perfluoroundecanoic acid (PFUnA)	ND		0.14	0.40

Surrogate	%Rec	Qualifier	Acceptance Limits
13C4 PFOA	107		60 - 155
13C4 PFOS	100		45 - 130
13C4 PFBA	111		36 - 130
13C2 PFHxA	106		55 - 135
13C5 PFNA	112		54 - 132
13C2 PFDA	109		53 - 130
13C2 PFUnA	106		37 - 130
13C2 PFDa	102		26 - 130
18O2 PFHxS	105		61 - 130

Analytical Data

Client: Dalton Utilities

Job Number: 280-2464-1

Client Sample ID: MW 4-M8

Lab Sample ID: 280-2464-16

Date Sampled: 04/12/2010 1327

Client Matrix: Water

Date Received: 04/16/2010 0900

DV-LC-0012 Perfluorinated Hydrocarbons

Method:	DV-LC-0012	Analysis Batch:	280-13803	Instrument ID:	LC_LCMS5
Preparation:	3535	Prep Batch:	280-11478	Lab File ID:	pc50E04054.d
Dilution:	20			Initial Weight/Volume:	250.1 mL
Date Analyzed:	05/04/2010 2214			Final Weight/Volume:	5000 uL
Date Prepared:	04/19/2010 1225			Injection Volume:	30 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Perfluorobutane Sulfonate (PFBS)	4.2		0.16	0.40
Perfluorobutanoic acid (PFBA)	0.34	J	0.20	0.40
Perfluorodecanoic acid (PFDA)	ND		0.16	0.40
Perfluorododecanoic acid (PFDoA)	ND		0.30	0.60
Perfluoroheptanoic acid (PFHpA)	0.30	J	0.26	0.60
Perfluorohexane Sulfonate (PFHxS)	ND		0.14	0.60
Perfluorohexanoic acid (PFHxA)	0.58		0.058	0.40
Perfluorononanoic acid (PFNA)	ND		0.35	0.80
Perfluooctanoic acid (PFOA)	0.72		0.20	0.40
Perfluorooctane Sulfonate (PFOS)	0.36	J	0.27	0.60
Perfluoropentanoic acid (PFPA)	0.57	J	0.22	0.60
Perfluorotetradecanoic acid (PFTeA)	ND		0.29	0.60
Perfluorotridecanoic Acid (PFTriA)	ND		0.35	0.80
Perfluoroundecanoic acid (PFUnA)	ND		0.14	0.40

Surrogate	%Rec	Qualifier	Acceptance Limits
13C4 PFOA	108		60 - 155
13C4 PFOS	102		45 - 130
13C4 PFBA	116		36 - 130
13C2 PFHxA	107		55 - 135
13C5 PFNA	114		54 - 132
13C2 PFDA	107		53 - 130
13C2 PFUnA	106		37 - 130
13C2 PFDoA	100		26 - 130
18O2 PFHxS	106		61 - 130

Analytical Data

Client: Dalton Utilities

Job Number: 280-2464-1

Client Sample ID: MW 5-M7

Lab Sample ID: 280-2464-17

Date Sampled: 04/12/2010 1339

Client Matrix: Water

Date Received: 04/16/2010 0900

DV-LC-0012 Perfluorinated Hydrocarbons

Method:	DV-LC-0012	Analysis Batch:	280-13803	Instrument ID:	LC_LCMS5
Preparation:	3535	Prep Batch:	280-11478	Lab File ID:	pc50E04055.d
Dilution:	20			Initial Weight/Volume:	251.1 mL
Date Analyzed:	05/04/2010 2227			Final Weight/Volume:	5000 uL
Date Prepared:	04/19/2010 1225			Injection Volume:	30 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Perfluorobutane Sulfonate (PFBS)	0.46		0.16	0.40
Perfluorobutanoic acid (PFBA)	0.44		0.20	0.40
Perfluorodecanoic acid (PFDA)	ND		0.16	0.40
Perfluorododecanoic acid (PFDoA)	ND		0.30	0.60
Perfluoroheptanoic acid (PFHpA)	0.79		0.26	0.60
Perfluorohexane Sulfonate (PFHxS)	0.40	J	0.14	0.60
Perfluorohexanoic acid (PFHxA)	1.3		0.058	0.40
Perfluorononanoic acid (PFNA)	ND		0.35	0.80
Perfluooctanoic acid (PFOA)	1.5		0.19	0.40
Perfluorooctane Sulfonate (PFOS)	0.92		0.27	0.60
Perfluoropentanoic acid (PFPA)	1.8		0.22	0.60
Perfluorotetradecanoic acid (PFTeA)	ND		0.29	0.60
Perfluorotridecanoic Acid (PFTriA)	ND		0.35	0.80
Perfluoroundecanoic acid (PFUnA)	ND		0.14	0.40

Surrogate	%Rec	Qualifier	Acceptance Limits
13C4 PFOA	110		60 - 155
13C4 PFOS	107		45 - 130
13C4 PFBA	123		36 - 130
13C2 PFHxA	108		55 - 135
13C5 PFNA	113		54 - 132
13C2 PFDA	109		53 - 130
13C2 PFUnA	111		37 - 130
13C2 PFDoA	103		26 - 130
18O2 PFHxS	106		61 - 130

Analytical Data

Client: Dalton Utilities

Job Number: 280-2464-1

Client Sample ID: MW 6-M2

Lab Sample ID: 280-2464-18

Date Sampled: 04/12/2010 1353

Client Matrix: Water

Date Received: 04/16/2010 0900

DV-LC-0012 Perfluorinated Hydrocarbons

Method:	DV-LC-0012	Analysis Batch:	280-13804	Instrument ID:	LC_LCMS5
Preparation:	3535	Prep Batch:	280-11481	Lab File ID:	pc50E04060.d
Dilution:	20			Initial Weight/Volume:	250.3 mL
Date Analyzed:	05/04/2010 2331			Final Weight/Volume:	5000 uL
Date Prepared:	04/19/2010 1225			Injection Volume:	30 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Perfluorobutane Sulfonate (PFBS)	ND		0.16	0.40
Perfluorobutanoic acid (PFBA)	0.81		0.20	0.40
Perfluorodecanoic acid (PFDA)	ND		0.16	0.40
Perfluorododecanoic acid (PFDoA)	ND		0.30	0.60
Perfluoroheptanoic acid (PFHpA)	ND		0.26	0.60
Perfluorohexane Sulfonate (PFHxS)	ND		0.14	0.60
Perfluorohexanoic acid (PFHxA)	0.25	J	0.058	0.40
Perfluorononanoic acid (PFNA)	ND		0.35	0.80
Perfluooctanoic acid (PFOA)	ND		0.20	0.40
Perfluorooctane Sulfonate (PFOS)	ND		0.27	0.60
Perfluoropentanoic acid (PFPA)	1.5		0.22	0.60
Perfluorotetradecanoic acid (PFTeA)	ND		0.29	0.60
Perfluorotridecanoic Acid (PFTriA)	ND		0.35	0.80
Perfluoroundecanoic acid (PFUnA)	ND		0.14	0.40

Surrogate	%Rec	Qualifier	Acceptance Limits
13C4 PFOA	114		60 - 155
13C4 PFOS	108		45 - 130
13C4 PFBA	111		36 - 130
13C2 PFHxA	113		55 - 135
13C5 PFNA	119		54 - 132
13C2 PFDA	108		53 - 130
13C2 PFUnA	112		37 - 130
13C2 PFDoA	105		26 - 130
18O2 PFHxS	108		61 - 130

Analytical Data

Client: Dalton Utilities

Job Number: 280-2464-1

Client Sample ID: MW 7A-U2

Lab Sample ID: 280-2464-19

Date Sampled: 04/12/2010 1412

Client Matrix: Water

Date Received: 04/16/2010 0900

DV-LC-0012 Perfluorinated Hydrocarbons

Method:	DV-LC-0012	Analysis Batch:	280-13804	Instrument ID:	LC_LCMS5
Preparation:	3535	Prep Batch:	280-11481	Lab File ID:	pc50E04061.d
Dilution:	20			Initial Weight/Volume:	250.0 mL
Date Analyzed:	05/04/2010 2344			Final Weight/Volume:	5000 uL
Date Prepared:	04/19/2010 1225			Injection Volume:	30 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Perfluorobutane Sulfonate (PFBS)	0.38	J	0.16	0.40
Perfluorobutanoic acid (PFBA)	1.6		0.20	0.40
Perfluorodecanoic acid (PFDA)	ND		0.16	0.40
Perfluorododecanoic acid (PFDa)	ND		0.30	0.60
Perfluoroheptanoic acid (PFHpA)	0.90		0.26	0.60
Perfluorohexane Sulfonate (PFHxS)	0.28	J	0.14	0.60
Perfluorohexanoic acid (PFHxA)	3.3		0.058	0.40
Perfluorononanoic acid (PFNA)	ND		0.35	0.80
Perfluorooctanoic acid (PFOA)	1.2		0.20	0.40
Perfluorooctane Sulfonate (PFOS)	ND		0.27	0.60
Perfluoropentanoic acid (PFPA)	5.7		0.22	0.60
Perfluorotetradecanoic acid (PFTeA)	ND		0.29	0.60
Perfluorotridecanoic Acid (PFTriA)	ND		0.35	0.80
Perfluoroundecanoic acid (PFUnA)	ND		0.14	0.40

Surrogate	%Rec	Qualifier	Acceptance Limits
13C4 PFOA	110		60 - 155
13C4 PFOS	106		45 - 130
13C4 PFBA	116		36 - 130
13C2 PFHxA	106		55 - 135
13C5 PFNA	116		54 - 132
13C2 PFDA	109		53 - 130
13C2 PFUnA	109		37 - 130
13C2 PFDa	104		26 - 130
18O2 PFHxS	107		61 - 130

Analytical Data

Client: Dalton Utilities

Job Number: 280-2464-1

Client Sample ID: MW 7-M9

Lab Sample ID: 280-2464-20

Date Sampled: 04/12/2010 1434

Client Matrix: Water

Date Received: 04/16/2010 0900

DV-LC-0012 Perfluorinated Hydrocarbons

Method:	DV-LC-0012	Analysis Batch:	280-13804	Instrument ID:	LC_LCMS5
Preparation:	3535	Prep Batch:	280-11481	Lab File ID:	pc50E04062.d
Dilution:	20			Initial Weight/Volume:	250.3 mL
Date Analyzed:	05/04/2010 2357			Final Weight/Volume:	5000 uL
Date Prepared:	04/19/2010 1225			Injection Volume:	30 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Perfluorobutane Sulfonate (PFBS)	0.23	J	0.16	0.40
Perfluorobutanoic acid (PFBA)	0.60		0.20	0.40
Perfluorodecanoic acid (PFDA)	ND		0.16	0.40
Perfluorododecanoic acid (PFDoA)	ND		0.30	0.60
Perfluoroheptanoic acid (PFHpA)	0.36	J	0.26	0.60
Perfluorohexane Sulfonate (PFHxS)	ND		0.14	0.60
Perfluorohexanoic acid (PFHxA)	1.1		0.058	0.40
Perfluorononanoic acid (PFNA)	ND		0.35	0.80
Perfluorooctanoic acid (PFOA)	0.34	J	0.20	0.40
Perfluorooctane Sulfonate (PFOS)	ND		0.27	0.60
Perfluoropentanoic acid (PFPA)	2.7		0.22	0.60
Perfluorotetradecanoic acid (PFTeA)	ND		0.29	0.60
Perfluorotridecanoic Acid (PFTriA)	ND		0.35	0.80
Perfluoroundecanoic acid (PFUnA)	ND		0.14	0.40

Surrogate	%Rec	Qualifier	Acceptance Limits
13C4 PFOA	106		60 - 155
13C4 PFOS	102		45 - 130
13C4 PFBA	112		36 - 130
13C2 PFHxA	107		55 - 135
13C5 PFNA	111		54 - 132
13C2 PFDA	105		53 - 130
13C2 PFUnA	105		37 - 130
13C2 PFDoA	103		26 - 130
18O2 PFHxS	102		61 - 130